

REMARKS

Claims 1-11 and 14 are pending in the present application. In the above amendments, claims 6, 9 and 11 have been amended, claims 12-13 have been withdrawn, and new claims 15-22 have been added.

In the Office Action mailed 12/3/2004, the Examiner allowed claims 1-7, objected to claim 9, rejected claim 11 under 35 U.S.C. §112 and rejected claims 8-11 and 14 under 35 U.S.C. §102(b).

Applicants respectfully respond to this Office Action.

Applicants amended claim 6 by replacing on two occurrences “hand off” with “handoff.” The changes made are typographical and add no new matter to the application.

The Examiner objected to claim 9 because of the following informalities: “claim 7” should be –claim 8–. In response to the Examiner’s objection, claim 9 has been amended to depend on claim 8.

The Examiner rejected claim 11 under 35 U.S.C. §112 stating that there is insufficient antecedent basis for the “filter adjustment means” in line 1. In response to the Examiner’s rejection, claim 11 has been amended to depend on claim 10.

The Examiner rejected claims 8-11 and 14 under 35 U.S.C. 102(b) as being anticipated by Eberhardt (5,930,288). U.S. patent number 5,930,288 (“the ‘288 patent”) discloses a number of filters. One of the filters, filter 135, “filters the pilot sample signal and produces a filtered signal.” Col. 6, lines 53-55. Furthermore, the filtered signal is compared with a lock threshold. “The comparator 144 produces a lock indication at an output 149 when the filtered signal exceeds a lock threshold.” Col. 6, lines 55-56. “The comparator 144 compares the filtered signal

to a lock threshold 141 or an unlock threshold 143 . . . The comparator produces a lock indication at the output 149 in response to the comparison.” Col. 7, lines 21-29.

However, although the ‘288 patent does disclose the use of a filter 135 whose signal is compared with a threshold 141, the filter is not *adjusted* “based on lock states of the fingers” as recited in independent claim 8 of the present invention. Nor is it *adjusted* “in response to the comparison means” as disclosed in independent claim 14 of the present invention. Instead, to deal with the effects of fading, the filter has a variable bandwidth which is reduced to filter the effects of fading. Col. 7, lines 9-13. The two filters, first filter 410 and second filter 412, disclosed in the section of the ‘288 patent cited by the Examiner, col. 10, line 63 to col. 11, line 6, function in the same manner as filter 135. “Structure and operation of the first filter 410 and the second filter 412 are similar to structure and operation of filter 135 described above in conjunction with FIG. 1.” Col. 12, lines 1-3. Therefore, the ‘288 patent does not anticipate claims 8-11 and 14 because it does not disclose all the elements of claims 8-11 and 14.

Claims 15-22 have been added. Support for claims 15-22 is located throughout the specification and is found, for example, on page 10, lines 3 to 24. Support for claims 18 and 22 is located throughout the specification and is found, for example, on page 10, line 25 to page 11, line 24. Claims 15-22 are generally directed to a lock detector having a filter adjustment apparatus which compares a received signal energy to a threshold value and adjusts the lock filter in response to the comparison. These claims are patentable for the reasons stated *infra*.

Applicants believe these changes add no new matter to the application and are fully supported by the original disclosure.

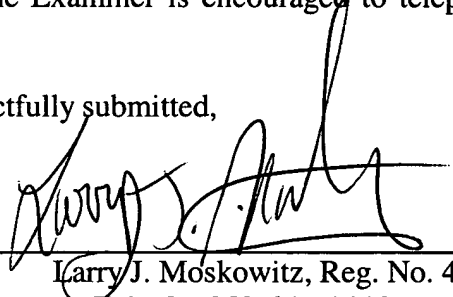
REQUEST FOR ALLOWANCE

In view of the foregoing, Applicants submits that all pending claims in the application are patentable. Accordingly, reconsideration and allowance of this application are earnestly solicited. Should any issues remain unresolved, the Examiner is encouraged to telephone the undersigned at the number provided below.

Respectfully submitted,

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By:


Larry J. Moskowitz, Reg. No. 42,911
Tel. No. 858-651-4556

QUALCOMM Incorporated
5775 Morehouse Drive
San Diego, California 92121
Telephone: (858) 651-4125
Facsimile: (858) 658-2502